

SELECTING SIRE FOR DAIRY

Breeds Standing at the Front in This Country Are Halstein, Jersey, Guerrancy and Aynahins.

Its choowing the sire choose one from may daily bread which may be preformed. The strangin dairy arounds that stand in the front in this country are the Robinson, Jersey, Aprelione Guerney. There are other good dairy Brands but them are the four oldest and best of all. The choice being made fon's change the brend from which this siru is chosen, and executes great more in choosing the sine.

The individual guines of a good fairy stire expited he given in detail here. but two of these will be mentioned. because they are in a sense, indispen-The first is the artifenous of much stamins and hodily vigne. The second is, an amplitude of soft skin



Splendid Type for Head of Dairy Herd.

on the underline in front of the testicies, distinctly traceable milk value and ministare nexts of good size and wide spacing. The performance of the angestry of the bull should be examined. The more good performers in the upward line of annestry the better. Good performance on the part of ancentral dama means the giving of large quantities of milk rich in quality and persistance in milk giving for a long

The successive sires should be chosem from the same breed. If chosen from another breed disturbing factors are inevitable. This may not be appurent at the first, but it will later. The antagonism likely to result cannot he explained here. By adhering to this line of breeding the improvement should be rapid and continuous at least for several generations, but the improvement will be less noticeable with each succeeding generation.

CEMENT FLOORS FOR STABLE

Slight Fall at One End-Use Wooden Trowel for Finishing.

When laying coment floors, gutters should be laid first with a slight fall to one end. These should be 4 to 5

need 4 feet 10 inches or 5 feet, while give up before they learn how. Huc small heffers require only a 6-foot

The floor should slope to the gutter from each side. The passage be-hind the cows should be at least \$ feet wide to allow cows to pass with out exowding. The floor should be finished with a wooden trowel rather than a steel one, as the latter makes a smooth, slippery finish that when wet is very difficult for the cows to walk on safely.

If drains are to be laid to carry off the liquid manure or the water used in washing the floors, they must be put in before the floor is laid.

TEST ALL THE DAIRY COWS

Wise Move for Farmer to Send Unprofitable Animals to Butcher-Many Are Mere "Boarders."

If a cow is not well qualified for dairy purposes it does not puy to keep her for dairy purposes. There is economy in testing all the members of able cows to the butcher.

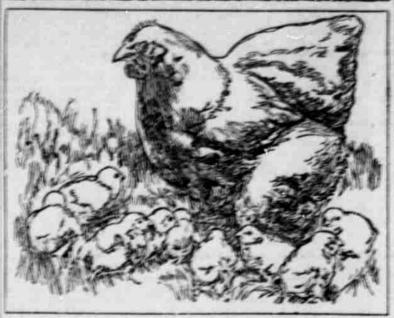
Farmers in San Joaquin county, Cal., have organized for this purpose. Farm Adviser Lyons, who is directing the efforts of the organization, says: The movement is one that means a great saving to farmers, and it is bound to spread over the entire state. It will probably be found that 20 and 25 per cent of the cows in the average herd are not paying for their keep. The dairyman will make money by selling these cows for beef."

Vaseline is Beneficial.

Milkers who have difficulty milking dry should rub a little vaseline on their hands. This practice is not a filthy one, as wetting the toats but has a beneficial effect upon them.

No Best Dairy Breed. No dairy breed has a monopoly on all the good dairy cows. With the present high development of the various breed associations all the breeds have excellent stock,

WHERE LIES PROFIT IN POULTRY RAISING



The Original Incubator

THY MICH A. J. WIEDERLY

The farmer has a great advantage pers over the poultrymus who has all the feed to buy said we must not forget to make the best use possible of this advantups.

Grit and charceal can be found and made on the farm and the expense of myling these necessary things can be saved. If there is a creek hed near, hand gravel from that and place near find it. Charcoul can be made by taklag the live onale from the stove and pouring water over them. They will immediately turn to charmal and can he ground or broken up into the right size for the chickens to swallow. Retfer do this work out of doors as steam and salies will to from the coals whenthe water is poured on them.

In these ways we can greatly reduce the cost of keeping our poultry and it will pay us to are time and thought to our work ay the profit in the poultry business, as in any other, lies between the cost of production and the amount received for the marketed products.

Besides comfortable quarters, the elited, to thrive, must have exercise, water, grit, a variety of grain food, green or successent food, and casein or mest foods

Exercise is an essential as food, and lack of it indicates wrong methods of rearing. The natural way for a chick to take its food is to scratch for it, taking a little at a time. If small chickens are out into a box with a bure floor and fed from a trough, they will Many will become me wenk. generally concluded that something meat grit and green food.

has been fed to excee bowel trouble In order to make as great profit as As a matter of fact they are weak toutilitie we should use economy in franci lack of exercise, and the appearthe production as well as good judg- ance of discrises is only the mability ment in the marketing of eggs and of the chick to properly expel its exerements.

If chicks custon be out of doors their feeding floor should be covered with sand, and over this should be thrown some litter, such as grad from the straw stack or leaves from an siffsiffs loft. Place the feed in this litter. If small quantities are thus given, and given often, the question of exercise is solved. Brooder chicks need more care in this way thus dothe henisques where the positry can chicks with hene, but even in the latter case it is worth while to make them ecratch for their food when they are raised litidours.

> The notion is prevalent that a chick should begin his dist on builed eggs. bread and milk, or some other soft food. This notion has probably arisen from the knowledge that most young unimals cannot digest hard foods. But when we consider the fact that the natural food of the young mammal is mills, we ask why this principle does not upply to chickens.

Little chicks should be first fed when seventy two to ninety-six hours Feed small quantities and as nide often as is engrenished. If the feed is buried in deep litter they must work longer getting it out. The idea is to have them always hangry enough food for them to find. If the chicks are at liberty, feeding often is not so important—three times a day would in the fields, finding much food, morning and evening feeding is all that is It is not a matter of Decessary ... great importance just what grain a chicken is first fed. The important clogged benind with the excrements thing is that they be supplied with a accumulating on the down, and it is variety of grain as with exacts or

Fowl Cannot Live Under Burning Sun -it Must Have Shade and Water -What to Fred Them.

There is money in ducks, and you inches deep and 15 to 18 inches wide. can hatch them in an incubator and The distance from gutter to stan- every one will hatch, but few people chion should be about 4 feet 6 inches know how to raise or hatch them for ordinary cows. Large cows may properly. Too many begin and then



Runner Ducks.

consful duck breeders will not average losing (we in one hundred. Many people ask: "Why do my ducks get diarrhea, why set dirry, why drop dend " If a duck gets diarrhea you are not feeding right; if dirzy, you are neglecting something that should dairy herds and sending the unprofit- he is its feed-not enough grass, ment water, or sand. If it drops dead you have let it yet worms somewhere, exting throat worms, or stuffed on too dry corameal, or let it get sunstruck. A duck cannot live under a burning sun; it coust have shade and water

After the ducklings have dried off in the involutor, and are from twenty four to thirty-six hours old, they are placed in the brooder and may be given their first meal, which is the same as the regular rations they are to receive afterwards. This consists of a bran mash made of two-thirds bran or coarse middlings, and onethird commeal by weight, mixed with

cold water or skim milk. After the first four days the feed consists of commest and bran or coarse middlings of equal parts, and one pound in twenty of beef scraps. The amount of beef scraps is in creased until at eight weeks' old they get about one-eighth. A little sharp sand or chick grit is also mixed with

Ducks intended for market at ten grain rations fed.

Gutters should be Laid First With MAKING MONEY WITH DUCKS weeks of age are not given green stuff, but are fed five or six times a day all the mash they will eat clean in 15 minutes. Then the feeding boards are removed and cleaned for another meal.

FOOD FOR LITTLE CHICKENS

-Tests at Purdue.

About ten or twelve years ago the Purdue university station made an experiment of two lots of chicks, the od, care and treatment of the two lots being identical except that lot two received in addition to the food given lot one all the skim milk they would drink.

In the beginning of the test the combined weight of lot one was 121 nunces. In two months lot one weighed 297.5; lot two 476.5 ounces. The average gain per chick in that time was: Lot one, 2.75; lot two, 1.95 CONTERN

This showed that if akim milk he added to the ration fed to young chickens it will increase the consumption of the other foods given. The great increase in average gain was coincident with the period when the greatest amount of skim milk was con-

Skim milk is especially valuable as s food for young chickens during the hot weather and becomes of less importance as the chickens grow older and the weather becomes cooler.

POULTRY RETURNS ARE LARGE

Two Hundred Chicks Should Bring From \$100 to \$150, While Calf Will Clear About \$20.

Poultry will return greater profit than all other live stock on the farm. You will feed a calf a couple of years, and over the feed put into it will cienr, it may be, \$20. Turn 200 chicks out on range with a little grain retion morning and night and in six months the 190 chicks of th to bring from \$160 to \$150 if sold on a city market at 15 cents a pound; less, of course, if sold to the country trade, But see the difference? It isn't raise more beef; it is raise more chick-

Keep Hopper Full. Keep the hopper full of dry mash all of the time. This gives the chickens an opportunity to balance the

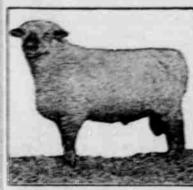


USE CARE IN LAMB FEEDING

Change From Grass to Alfalfa, Corn. Bartey, Erniliage, Etc., Wust Be Made Gradually.

A small percentage or inse in lambs In the feed lots is to be expected, but this loss in some instances is far greater than it should be. When range familie are placed on a famening ration. the change of feed is so audited that distatio disturbances cause a general disorder and several dead sheep are found in the pens each morning. This invariably leads to the suggistion that they are dying of some infectious dis-

in some cases the ration is not wellhalanced to secure the best gains and



Wool and Mutton Type.

the conditions of care and handling might be better, but these things will account for only a nominal loss.

The change from grass to alfalfa. corn, barley, molantes and straw, ensliage, etc., must be made gradually and herein lies the secret of the heavy losses of lambs in the feed lots in the early fall. The desire to get the lambs on a factoning ration as early as possible and falling to appreciate the danger of too heavy feeding and change of ration has helped to make lamb to hunt for food, and always a little feeding an unprofitable business in some instances. A sudden change of feed, or overfeeding, must be guarded against in the domestic animals, esbe sufficient; while if they roum far pecially is this true with the horse and

FIGHTING WORMS IN SHEEP

Internal Parasites, Next to Dogs, Are Greatest Detriment to Animals -Change Pastures Often.

Next to dogs internal parasites are the greatest detriment to the farm sheep business. The trouble seems to be aggravated by pasturing sheep year after year on the same ground. The best curs is prevention and the practical way of prevention is changing pastures as frequently as possible.

Scrawny, unthrifty lambs will usually be found suffering from intestinal worms, providing, of course, feed con-Skim Milk is Especially Valuable for ditions are such that they normally Young Fawls During Hot Weather should be in good shape. Gasoline is the heat treatment.

Mix well one-quarter ounce gasoline in three ounces sweet milk and drench each lamb for three mornings in succession. Before the first treatment put them in a pen and give them no feed nor water for 18 hours. Repeat the treatment again in three weeks. Be careful not to let the lamb strangle, and draw the mixture into the lungs.

HOW HOG CHOLERA SPREADS

Story Appears in Little Leaflet Recently issued by Experts of the Iowa State College.

How hog cholera spreads is less of a mystery than it used to be, due to careful investigations by the experts. The exact way is told in a little leastet recently issued by the arricultural extension department of Iowa State college. The story appears to the following table, based on a study of 280 farms in a cholern district:

Visiting neighbors, exchanging is bor a ...
Birk hogs on adjuining farms...
Infected by dogs
Previously infected premises...
Recuping hogs
Infected by hirds...
Contaminated streams
Purchasing new glock...

Feeding for Beef

With slisge as an important part of the feed of beef cattle best gains are made at least cost. The old-time hav and grain ration is too costly for the narrow margins on which the feeder must operate and the only way to in sure a profit is to buy his cattle as cheaply as possible, then cheapen the ration with silage and cottonseed meal.

Good Shepherd Watches.

Sometimes a good ewe is lost, or her udder nearly ruined, because the lamb, a little weakly, sucks but one test. The other soon becomes so full and hard it cannot get at it, or so sore and sensitive the ewe will not let it be touched. A good shopherd keeps an eye open for such craes.

AIR REEDED IN ICE BOX

deline for Proper Circulation is as Much a Necessity as Supply of Copiling Waterlat.

It is assumishing how little the averuse houseldreger knows about lice. Some women seem to think all there is about los is to have the man put it in the refrigerator. Others, more carefull think to save the fee bill by putting some kind of covering over the

True, the line does not melt so quick by with the cover, but then again, since does not melt, it has no cooling of-Sect. Unless fee melts it is useless. The faster it melts the colder the los how becomes.

The most important feature of & good refrigerator is ample facility a free circulation of air when the box By GEORGE M. GLOVER, Columbia Ex- is almed. Cool air, being beavier than warm air, sinks. The warm air rises. For this reason the coldest place in the refrigerator is the bottom and not the fee chamber, as so many people think it is and consequently often but butter or milk directly in with the ice.

There must be suttable passages to allow the warm air rising from the things placed in the retrigerator to flow to and over the ice at the top, and Spread a thick coat of fresh airfor this same air when ecoled and purified by the melting les, to return

into the food chamber. The circulation continues until the temperature is equalized. While this circulation proceeds the ice meits rapidly, but when the temperature is once equalized the ice melts very allowly, that is, if the door fits tight. It will pay in the end to keep the lot compartment well supplied with fre-It should never be less than one-quarter full. The ice melts faster, and with less cooling effect, when the supply is low

KITCHEN HINTS OF MOMENT

Proper Receptacles for the Preservation of Food-Mest When Roasting Should Be Kept Covered.

Experhady does not know that food in general should not be allowed to cool in tis, copper or iron. It must be placed tille hot in agute, china or well glazed eathen ware.

Green vegetables should be dropped into bolling water to which a pinch of blearbonate of sods has been added. Put in sait when the article is half cooked.

If you have covered a pan in which meat is to be roasted never open it to baste the meat. Keep it covered from start to finish. The idea is that the pans are filled with steam, which penetrates the fibers of the meat. If desired to brown the outside leave the cover off for the first half bour in a fields. quick oven.

The shank bones of matton, of so little general value, if well soaked add to the richness of gravies and soup atoric.

When boiling haricot beans or dried limas do not put in the salt until they are nearly cooked, otherwise they are apt to split and come out of their skins. They should be brought to the are well worth looking after. and fresh boiling water poured over them.

Whisping Cream Should Be Cold. cream she has will not whip. The de- ones. partment's dairy specialists point out Do not think they are too late to that to obtain satisfactory results in amount to anything and therefore igwhipping cream it should be cold and nore them or leave them to shift for of the right thickness, containing themselves, but give them the same about 16 per cent or more of butter- care you did the early flocks. As the fat. Ordinary cream, designated as weather is apt to be quite hot from coffee cream by the trade, is altogether too thin to give good results. The whipping cream, as delivered by the milkman, contains 20 to 40 ner cent of butterfat. . Thoroughly chill the cream before whipping by placing it in a covered bowl on the ice. whipping process is also aided and hastened by standing the bowl in a pan of los water.

Scotch Broth.

Three pounds neck mutton, two tablespoonfuls pearl barley, two tablespoonfuls minced onion, two tablespoonfuls minced turnip, two tablesconfuls minced carrot, two tablespoonfuls minced celery, two tablespoonfuls salt, one teaspoonful pepper, one tablespoonful minced paraley, three quarts cold water. Remove bones and fat from motton, cut meat small and place with vegetables and sensoning, except parsley. Simmer three hours after coming to a boil. then thicken with flour and add paraley.

Beef Tea Meat.

Remove all gristle and fat from meat trimmings in a pan with sufficient water to cover them, and add any vegetable to hand cut up small. Allow to simmer, then add the meat from the beef tea. Simmer for four hours, then atrain through a hair sieve and pour the liquid into a mold to set. When cold it will be a nourishing jelly, suitable for invalids. The vegetable used must be quite fresh.

Paint Flower Pots.

Instead of buying expensive jardinieres for your plants, paint the or dinary flower pots and saucers with an oil paint to harmonize with the color scheme of the room. Have pots painted a soft leaf green, or Chinese blues are very quaint and decorative

To Prevent Gas Stove Sweating. If you are careful to leave the door of your gas range open after using, it will allow the heat to escape and prevent the sweating of the metal, which leads to rust.



PROPER CARE OF HEN YARDS

Fowl Should Have Abundant Supply of Water-Feed Liberally of All Kinds of Green Stuff.

A hen's body and a hen's erg to composed to a large extent of water. therefore a hen should have shundance of water, either in the clear state or through green vegetable mutter. Have the vennels clean and give freshly pumped well water twice a

day. When the hen pasture is eaten of close remove them to fresh pusture. slacked lime over the first pasture to kill the bacteria that may be present and to sweeten the soil. Lime is one of the best and cheapest disinfectants we can use. Oyster-shell lime at the kiln may be had for five cents per husbel, and when airslacked one bushsi will make two bushels. Use lime freely in the yards, and in the house at least once a week. Have plenty of crushed ovster shells and grit in the feeding room.

Henz confined in small wards should have a part of the rard spaded up at least once a week and then limed. Give an abundance of freshly cut clover, cabbage leaves, lettuce and grass. No refuse matter should be allowed to remain in the yard, as it is liable to produce disease among the hens. Chickens should not be kept in the same yard with hens. Have sixted feeding coops. Feed the chickens in the coops, so they can get their full share of feed. These coops can be quickly made of laths-being light they can easily be moved from place to place-and will be found a great convenience, especially where the hen has a brood of young chick-

Chickens and grown towls suffer from the heat. Shade of some kind must be provided if there is no natural shade. Make a low shed of poles and cover the poles with brush. Grass range saves feed and is best for the heave. Hens pick up a large part of their living in the summer in the

LOOKING AFTER LATE POULTS

Birds Are Sure to Bring in Good Returns If Properly Managed-Shade is Absolutely Necessary.

The July and August hatched poults boiling point, that water poured of they are sure to bring in good returns if properly managed. The turkey hen whose early brood meets with disaster or who has been repeatedly broken up often lays out and now brings up Often the housewife finds that the all the way from two to a dozen little



The King of Birds.

now on for a few weeks it is quite important that some shade be provided to protect them from the midday sun, says a Kansas writer in Parm Progress. For young turkeys simply cannot survive its ravages.

I found this out to my sorrow a few years ago. Our shade trees were a minus quantity, so the little follows had been used to hiding in the alfalfa. Intended for beef tea. Place these That morning the mowers were busy in the fields and after dinner, when the men went out, they found a number of my turks lying limp and lifeless in the path. They had simply "keeled over" dead from heat and ex-

haustion. That taught us a lesson. If the hen can have the run of a grove or orchard with her little ones she is safe on that score. But if there is not any natural protection, artificial shade should be provided.

Gather the Turkey Eggs. A good turkey hen will usually lay more eggs than she can comfortably cover; it is therefore advisable to gather the eggs as they are laid and

when the hen desires to set give her

12 or 15 of the last laid eggs.

Waste Feed on Roosters. About nine out of every ten fartaers must plend guilty to wasting feed on too many roosters from now on. This also adds to the egg losses through their being fertile and thus quicker to deteriorate.